## **BASIC COMPLIANCE REPORT Calculation Type: New Build (As Designed)**



kWh/m²/yr

kWh/m²/yr

**Pass** 

<b>Property Reference</b>	6395-0001-4066-22-03				Issued on Date	31/07/2022
Assessment	001		Pro	p Type Ref		
Reference						
Property	Unit 3, 24, Hampton Roa	d, Twickenha	m, London			
SAP Rating		87 B	DER	14.21	TER	21.87
Environmental		89 B	% DER <ter< th=""><th></th><th>35.01</th><th></th></ter<>		35.01	
CO <sub>2</sub> Emissions (t/y	ear)	0.90	DFEE	61.80	TFEE	70.35
General Requirem	ents Compliance	Pass	% DFEE <tfee< th=""><th></th><th>12.14</th><th></th></tfee<>		12.14	
Assessor Details	Mr. Christopher Bills, Premi- 07751 824354, chris@premi-	_		t services, Te	Assessor ID	6395-0001
Client						

### SUMARY FOR INPUT DATA FOR New Build (As Designed)

## Criterion 1 – Achieving the TER and TFEE rate

#### 1a TER and DER

Fuel for main heating	Mains gas		
Fuel factor	1.00 (mains gas)		
Target Carbon Dioxide Emission Rate (TER)	21.87	kgCO <sub>2</sub> /m <sup>2</sup>	
Dwelling Carbon Dioxide Emission Rate (DER)	14.21	kgCO₂/m²	Pass
	-7.66 (-35.0%)	kgCO <sub>2</sub> /m <sup>2</sup>	
1b TFEE and DFEE			
Target Fabric Energy Efficiency (TFEE)	70.35	kWh/m²/yr	

61.80

-8.5 (-12.1%)

## Criterion 2 – Limits on design flexibility

Dwelling Fabric Energy Efficiency (DFEE)

## **Limiting Fabric Standards**

### 2 Fabric U-values

Element	Average	Highest	
External wall	0.23 (max. 0.30)	0.23 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Floor	0.11 (max. 0.25)	0.11 (max. 0.70)	Pass
Roof	0.10 (max. 0.20)	0.10 (max. 0.35)	Pass
Openings	1.53 (max. 2.00)	1.70 (max. 3.30)	Pass

## 2a Thermal bridging

Thermal bridging calculated from linear thermal transmittances for each junction  $% \left( 1\right) =\left( 1\right) \left( 1\right)$ 

#### 3 Air permeability

Air permeability at 50 pascals	6.00 (design value)	
Maximum	10.0	Pass

### **Limiting System Efficiencies**

#### **4 Heating efficiency**



# **BASIC COMPLIANCE REPORT Calculation Type: New Build (As Designed)**



Main heating system	Boiler system with radiators or underfloor - Mai Data from database Vaillant ecoTEC sustain 24 VUW 246/7-2 (H-GB) Combi boiler Efficiency: 89.2% SEDBUK2009 Minimum: 88.0%	
Secondary heating system	None	
5 Cylinder insulation		
Hot water storage	No cylinder	
<u>6 Controls</u>		
Space heating controls	Time and temperature zone control	Pass
Hot water controls	No cylinder	
Boiler interlock	Yes	Pass
7 Low energy lights		
Percentage of fixed lights with low-energy fittings	100	6
Minimum	75 %	6 Pass
8 Mechanical ventilation		
Not applicable		
Criterion 3 – Limiting the effects of heat gains in su	mmer	
9 Summertime temperature		
Overheating risk (Thames Valley)	Slight	Pass
Based on:		
Overshading	Average	
Windows facing North East	10.95 m², No overhang	
Windows facing South East	1.47 m², No overhang	
Windows facing North West	1.47 m², No overhang	
Air change rate	8.00 ach	
Blinds/curtains	None	
Criterion 4 – Building performance consistent with	DER and DEEE rate	
Party Walls	Harding	
Туре	U-value	A1/10021/ Do 00
Air permeability and pressure testing	V	V/m²K Pass
3 Air permeability		
Air permeability at 50 pascals	6.00 (design value)	
Maximum	10.0	Pass
10 Key features	10.0	1 033
Party wall U-value	0.00 V	V/m²K
Roof U-value		V/m²K
Floor U-value		V/m²K
Photovoltaic array		W
. Hotovoltale allay	1.23	**

This report has not been submitted through the Elmhurst Energy members' portal, therefore results are subject to change when the dwelling is completed.





Property Reference								
	6395-0001-	-4066-22-03				Iss	ued on Date	31/07/2022
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Reference								
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Environmental			89 B	% DER <ter< td=""><td></td><td></td><td>35.01</td><td></td></ter<>			35.01	
CO₂ Emissions (t/year	.)		0.90	DFEE	61.8	80	TFEE	70.35
General Requirement	s Compliance		Pass	% DFEE <tfee< td=""><td></td><td></td><td>12.14</td><td></td></tfee<>			12.14	
	/r. Christophe 7751 824354,			d energy assessn	nent service	s, Tel:	Assessor ID	6395-0001
Client	7701021001)	отпод ртенн	an testingles					
SUMMARY FOR INPUT	DATA FOR: N	lew Build (As	Designed)					
Orientation		North East			]			
Property Tenure		Unknown			ı 			
Transaction Type		New dwelling	σ		]			
Terrain Type		Urban	5		 			
1.0 Property Type		Bungalow, D	etached		ı 			
2.0 Number of Storeys		1	ctacrica		] ]			
3.0 Date Built		2022			<u> </u> 			
4.0 Sheltered Sides		0			<u> </u> 			
5.0 Sunlight/Shade		Average or u	nknown		] ]			
		7.11.01.00,00.01.01			<u> </u>			
6.0 Measurements				Heat Loss Perimet	er Inter	nal Floor	r Area Av	erage Storey Heigh
			ound Floor:	44.71 m	1	82.11 m <sup>2</sup>		2.40 m
7.0 Living Area		37.02				82.11 m <sup>2</sup>		
7.0 Living Area 8.0 Thermal Mass Param	eter		ound Floor:		1	82.11 m <sup>2</sup>		
	eter	37.02	ound Floor:		1	82.11 m		
8.0 Thermal Mass Param	eter Type	37.02 Simple calcul	ound Floor:		m²	U-Value	Gross Area	2.40 m
8.0 Thermal Mass Param Thermal Mass  9.0 External Walls		37.02 Simple calcul 100.00	ound Floor:		m²		Gross Area	2.40 m
8.0 Thermal Mass Param Thermal Mass  9.0 External Walls Description  External Wall Brick	Туре	37.02 Simple calcul 100.00	ound Floor:		m²	U-Value (W/m²K)	Gross Area	2.40 m  Nett Area (m²)
8.0 Thermal Mass Param Thermal Mass  9.0 External Walls Description  External Wall Brick	Туре	Simple calcul 100.00	ound Floor:		m²	U-Value (W/m²K)	Gross Area	2.40 m  Nett Area (m²)
8.0 Thermal Mass Param Thermal Mass  9.0 External Walls Description External Wall Brick  9.1 Party Walls	<b>Type</b> Timber Fr	Simple calcul 100.00	lation - Low		m²	U-Value (W/m²K)	Gross Area (m²) 107.30 U-Value (W/m²K)	2.40 m  Nett Area (m²) 91.41  Area
8.0 Thermal Mass Param Thermal Mass  9.0 External Walls Description  External Wall Brick  9.1 Party Walls Description	Type Timber Fr	Simple calcul 100.00	lation - Low		m²	U-Value (W/m²K) 0.23	Gross Area (m²) 107.30 U-Value (W/m²K)	Nett Area (m²) 91.41  Area (m²)
8.0 Thermal Mass Param Thermal Mass  9.0 External Walls Description  External Wall Brick  9.1 Party Walls Description  10.0 External Roofs Description	Type Timber Fr	Simple calcul 100.00  Tame  Cons	lation - Low		m²	U-Value (W/m²K) 0.23	Gross Area (m²) 107.30  U-Value (W/m²K)  Gross Area (m²) 82.11  U-Value	2.40 m  Nett Area (m²) 91.41  Area (m²)  Nett Area (m²)  80.78
8.0 Thermal Mass Param Thermal Mass  9.0 External Walls Description  External Wall Brick  9.1 Party Walls Description  10.0 External Roofs Description  External Roof Main  11.0 Heat Loss Floors	Type Timber Fr Type  External F	Simple calcul 100.00  Tame  Cons	ation - Low		m²	U-Value (W/m²K) 0.23	Gross Area (m²) 107.30  U-Value (W/m²K)  Gross Area (m²) 82.11	2.40 m  Nett Area (m²) 91.41  Area (m²)  Nett Area (m²) 80.78



12.0 Opening Types



Description	Data Source	Туре		Glazing		Glazing Gap	Argon Filled	G-val		ame ype	Frame Factor	U Value (W/m²K)
Entrance Door	Manufacture r	Solid D	oor .			•						1.70
Bi-Fold Door	r Manufacture r	Windo	W	Double Low-E	Soft 0.1			0.63	3		0.70	1.60
Windows	Manufacture r	e Windo	W	Double Low-E	Soft 0.05			0.63	}		0.70	1.40
Rooflights	Manufacture r	e Roof V	Vindow	Double Low-E	Soft 0.05			0.63	3		0.70	1.50
13.0 Openings												
	ening Type	Location	ı	Orientation	Curtain Type	Overhang Ratio	Wide Overhang		Height (m)	Count	Area (m²)	Curtain Closed
Front Elevation Sol	id Door	[1] Exter	nal Wall Brick	North East	.,,,,			()	()		2.00	
Front Elevation Wi	ndow		nal Wall Brick		None	0.00					7.18	
Front Elevation Wi	ndow		nal Wall Brick		None	0.00					3.77	
Side Elevation Wi			nal Wall Brick		None	0.00					1.47	
Side Elevation Wi	ndow	[1] Exter	nal Wall Brick	South East	None	0.00					1.47	
Rear Elevation Roo	of Window	[1] Exter Main	nal Roof	South West	None						1.33	
14.0 Conservatory			one									
15.0 Draught Proofing		=	00				%					
	\$	=					70					
16.0 Draught Lobby		N	0									
17.0 Thermal Bridging	3	С	alculate Brid	ges								
17.1 List of Bridges	D.M.						D-1		D . f			
Source Type	Bridge		(including oth	or stool lintals		Length	Psi 0.034	Imported				
Independently asses Table K1 - Approved	E3 Sill	ier iiriteis	(including our	er steel lintels	)	10.12 9.17	0.024	Yes Yes	ECD TF TFW-W			
Table K1 - Approved	E4 Jam	, h				30.20	0.040	Yes	TFW-W			
Table K1 - Approved			r (normal)			44.71	0.160	Yes	TFW-G			
Table K1 - Approved			lation at ceilin	a level)		36.07	0.060	No	TFW-R			
Table K1 - Approved			lation at ceilin	-		8.64	0.240	No	TFW-R			
Table K1 - Default		orner (no		P 16461/		14.40	0.180	No		_ 01		
Table K1 - Default		•	•	al area greater	than	4.80	0.000	No				
Table V4 Default		al area)	Contradant	0			0.000	V				
Table K1 - Default Table K1 - Default		of roof w	f window			1.80	0.080	Yes				
Table K1 - Default		of roof w nb of roof				1.80 5.92	0.060	Yes Yes				
	113 3411											
Y-value			.062				W/m²K					
18.0 Pressure Testing		_	es									
Designed AP₅o		6	.00				m³/(h.m²	) @ 50 Pa	ì			
Property Tested ?												
As Built AP <sub>50</sub>							m³/(h.m²	) @ 50 Pa	ì			
19.0 Mechanical Vent	ilation											
Summer Overheat	ting											
Windows oper	n in hot weathe	er	Windows	fully open			$\neg$					
Cross ventilation			Yes				=					
Night Ventilati			Yes				=					
•							=					
Air change rate			8.00									
Mechanical Ventil												
Mechanical Ven	tilation System P	resent	No									

20.0 Fans, Open Fireplaces, Flues





	MHS	SHS	Other	Total	
Number of Chimneys	0		0	0	
Number of open flues Number of intermittent fans	0		0	0 3	
Number of passive vents				0	
Number of flueless gas fires				0	
21.0 Fixed Cooling System	No			]	
22.0 Lighting					
Internal					
Total number of light fittings	8				
Total number of L.E.L. fittings	8				
Percentage of L.E.L. fittings	100.00			%	
External					
External lights fitted	No				
23.0 Electricity Tariff	Standard				
24.0 Main Heating 1	Database				
Description	Gas Combi Boil	er			
Percentage of Heat	100			%	
Database Ref. No.	18118			]	
Fuel Type	Mains gas			1	
Main Heating	BGW			]	
SAP Code	104			Ī	
In Winter	90.1			1	
In Summer	75.7				
Controls	CBI Time and te	emperature zo	ne control		
PCDF Controls	0			Ī	
Delayed Start Stat	Yes			Ī	
Sap Code	2110			]	
Flue Type	Balanced			1	
Fan Assisted Flue	Yes			1	
Is MHS Pumped	Pump in heated	d space		Ī	
Heat Emitter	Radiators			Ī	
Flow Temperature	Normal (> 45°C	()		Ī	
Combi boiler type	Standard Comb	)i		1	
Combi keep hot type	None			]	
25.0 Main Heating 2	None				
Community Heating	None				
28.0 Water Heating	HWP From mai	n heating 1			
Water Heating	Main Heating 1				
Flue Gas Heat Recovery System	Yes				
Waste Water Heat Recovery Instantaneous System 1	No				
Waste Water Heat Recovery	No			7	
Instantaneous System 2	INO			_	
Wasta Water Heat Recovery	No			7	



Waste Water Heat Recovery

No



Storage System					
Solar Panel	No				
Water use <= 125 litres/person/da	y Yes				
SAP Code	901				
28.1 Flue Gas Heat Recovery System					
Database ID	60076				
Brand Model	Vaillant, PF	GHRD/1			
Details	Year: 2013	+ current			
	Applicable	Fuel: 1			
	Boiler Type	es: RCSK			
	Heat Store	Volume: 0			
	PV module	: 0			
29.0 Hot Water Cylinder	None				
32.0 Photovoltaic Unit	One Dwelli	ng			
PV Cells kWp	Orientation	Elevation	Overshading	Connected to Dwelling	
1.25	South West	30°	Modest	Yes	

#### Recommendations

Lower cost measures

None

Further measures to achieve even higher standards

 $\frac{\text{Typical Cost}}{\text{per year}} \quad \frac{\text{Ratings after improvement}}{\text{per year}} \\ \text{Solar water heating} \quad \frac{\text{Environmental Impact}}{\text{Solar water heating}} \\ \frac{\text{E4,000 - £6,000}}{\text{E22}} \quad \frac{\text{E22}}{\text{B89}} \\ \frac{\text{Ratings after improvement}}{\text{Environmental Impact}} \\ \frac{\text{E32}}{\text{E32}} \\ \frac{\text{E33}}{\text{E33}} \\ \frac{\text{E34,000 - £6,000}}{\text{E32}} \\ \frac{\text{E34,000 - £6,000}}{\text{E34,000 - £6,000}} \\ \frac{\text{E3$ 





Property Reference	6395-0001-4066-22-03	6395-0001-4066-22-03				
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Project	Unit 3, 24, Hampton Road	d, Twickenham	ı, London			
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SAP Rating		87 B	DER	14.21	TER	21.87
Environmental		89 B	% DER <ter< th=""><th></th><th>35.01</th><th></th></ter<>		35.01	
CO <sub>2</sub> Emissions (t/year)		0.90	DFEE	61.80	TFEE	70.35
General Requirements	Compliance	Pass	% DFEE <tfe< th=""><th>Ε</th><th>12.14</th><th></th></tfe<>	Ε	12.14	
Assessor Details Mr. Christopher Bills, Premi-Air Testing and energy assessment services, Tel: Assessor ID 639 07751 824354, chris@premi-airtesting.co.uk					6395-0001	
Client						

#### **Building Elements**

### Roof 000002 - Pitched roof - insulated at ceiling

Roof Type: Pitched Roof, insulated flat ceiling

Layer	Description	Thickness	Conductivity	Resistance	Fraction
Layer	Description	(mm)	(W/m²K)	(m²K/W)	(%)
Ext surface				0.0400	
Layer 1	Roof space				
	Main construction	0	0.2000	0.2000	100.00
Layer 2	Mineral wool				
	Main construction	250	0.0400	6.2500	100.00
	Corrections - Air Gap: Level 0, Fasteners: None or				
	plastic				
Layer 3	Mineral wool quilt				
	Main construction	150	0.0400	3.7500	87.50
	Main construction	150	0.1300	1.1538	12.50
	Corrections - Air Gap: Level 0, Fasteners: None or				
	plastic				
Layer 4	Plasterboard, standard				
	Main construction	15	0.2100	0.0714	100.00
Int surface				0.1000	

Total resistance: Upper limit = 9.996 m<sup>2</sup> K/W Lower limit = 9.588 m<sup>2</sup> K/W Average = 9.792 m<sup>2</sup> K/W

 $\label{eq:correction} \textbf{Total correction} = \ 0.0030 \ \text{m}^2 \ \text{K/W} \qquad \qquad \textbf{U-value (unrounded)} = \ 0.1 \ \ \text{W/m}^2 \ \text{K}$ 

Unheated space: None

Total thickness: 415 mm U-value: 0.10 W/m² K Kappa: n/a





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CO <sub>2</sub> Emissions (t/year)		0.90	DFEE	61.80	TFEE	70.35
General Requirements	Compliance	Pass	% DFEE <tfe< th=""><th>Ε</th><th>12.14</th><th></th></tfe<>	Ε	12.14	
Assessor Details Mr. Christopher Bills, Premi-Air Testing and energy assessment services, Tel: Assessor ID 639						6395-0001
Client	,					

#### **Building Elements**

#### Wall 000001 - Timber Framed warm frame or hybrid

Wall Type: Timber framed Wall with I-beams

Layer	Description	Thickness (mm)	Conductivity (W/m <sup>2</sup> K)	Resistance (m²K/W)	Fraction (%)
Ext surface				0.0400	
Layer 1	Brick, outer leaf				
	Main construction	103	0.7700	0.1338	100.00
Layer 2	Standard cavity				
	Main construction	52	0.2889	0.1800	100.00
	Corrections - Cavity Unventilated, Emissivity:				
	Normal				
Layer 3	Breather membrane				
	Main construction	1	0.0000	0.0000	100.00
Layer 4	Orientated Strand Board				
	Main construction	9	0.1300	0.0692	100.00
Layer 5	Standard cavity				
	Main construction	20	0.1143	0.1750	91.67
	Main construction	20	0.1300	0.1538	8.33
	Corrections - Cavity Unventilated, Emissivity:				
	Normal				
Layer 6	Thermawall TW50 zero ODP				
	Main construction	100	0.0220	4.5455	91.67
	Main construction	100	0.1300	0.7692	8.33
	Corrections - Air Gap: Level 1, Fasteners: None or				
	plastic				
Layer 7	Standard cavity				
	Main construction	20	0.1143	0.1750	91.67
	Main construction	20	0.1300	0.1538	8.33
	Corrections - Cavity Unventilated, Emissivity:				
_	Normal				
Layer 8	Vapour control layer				
_	Main construction	1	0.0000	0.0000	100.00
Layer 9	Plasterboard,				
_	Main construction	12.5	0.2100	0.0595	100.00
Int surface				0.1300	

Total resistance: Upper limit = 4.657 m<sup>2</sup> K/W Lower limit = 4.184 m<sup>2</sup> K/W Average = 4.420 m<sup>2</sup> K/W

Total correction = 0.0053 m<sup>2</sup> K/W U-value (unrounded) = 0.23 W/m<sup>2</sup> K





Unheated space: None

Total thickness: 319 mm U-value: 0.23 W/m² K Kappa: n/a





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CO <sub>2</sub> Emissions (t/year)		0.90	DFEE	61.80	TFEE	70.35		
General Requirements Compliance		Pass	% DFEE <tfe< th=""><th>E</th><th colspan="4">12.14</th></tfe<>	E	12.14			
Assessor Details Mr. Christopher Bills, Premi-Air Testing and energy assessment services, Tel:  07751 824354, chris@premi-airtesting.co.uk  Assessor ID 6395-0001								
Client								

#### **Building Elements**

#### Floor 000004 - Floor - suspended beam-and-block floor

Floor Type: Suspended Floor

Area = 60.50 m<sup>2</sup>, Perimeter = 33.84 m, Wall thickness = 300.00 mm, Soil: Clay

Depth of underfloor space below ground:0.200 m Floor wind shielding: Average (suburban)

Floor height above ground:h = 0.000 m

U-value of walls above ground:Uw = 1.500 m

Ventilation openings per perimeter length:e = 0.0015 %

Mean wind speed:v = 5.000 m/s

Resistance on solum:Rg = 0.000 m<sup>2</sup>K/W

Layer	Description	Thickness (mm)	Conductivity (W/m <sup>2</sup> K)	Resistance (m²K/W)	Fraction (%)
Ext surface				0.1700	
Layer 1	AAC (600 kg/m3)/ concrete				
	Main construction	100	0.1800	0.5556	86.30
	Main construction	100	1.3500	0.0741	13.70
Layer 2	Polythene,1000 gauge				
	Main construction	2	0.0000	0.0000	100.00
Layer 3	Thermafloor TF70 zero ODP				
	Main construction	150	0.0220	6.8182	100.00
	Corrections - Air Gap: Level 1, Fasteners: None or				
	plastic				
Layer 4	Screed				
	Main construction	75	1.1500	0.0652	100.00
Int surface				0.1700	
Total resistan	ce: Upper limit = 7.709 m² K/W Lower limit	= 7.517 m <sup>2</sup>	K/W	Average =	7.613 m² K/

Total correction = 0.0080 m<sup>2</sup> K/W U-value (unrounded) =  $0.11 \text{ W/m}^2 \text{ K}$ 

Unheated space: None

Total thickness: 327 mm U-value: 0.11 W/m<sup>2</sup> K Kappa: n/a



## THERMAL BRIDGING

## **Calculation Type: New Build (As Designed)**



<b>Property Reference</b>				Issued on Date	31/07/2022				
Assessment	Prop Type Re		Prop Type Ref						
Reference									
Property	Unit 3, 24, Hampton Road	Unit 3, 24, Hampton Road, Twickenham, London							
SAP Rating		87 B	DER	14.21	TER	21.87			
Environmental	89 B	% DER <ter< th=""><th></th><th colspan="5">35.01</th></ter<>		35.01					
CO <sub>2</sub> Emissions (t/yes	0.90	DFEE	61.80	TFEE	70.35				
General Requirements Compliance		Pass	% DFEE <tfe< th=""><th>E</th><th colspan="5">12.14</th></tfe<>	E	12.14				
	Mr. Christopher Bills, Premi-Air Testing and energy assessment services, Tel 07751 824354, chris@premi-airtesting.co.uk 6395-0001								
Client	Client								

	Junction detail	Source Type	Psi (W/mK)	Length (m)	Result	Reference
External wall	E2 Other lintels (including other steel lintels)	Independently assessed	0.024	10.12	0.24	ECD TF01
External wall	E3 Sill	Table K1 - Approved	0.040	9.17	0.37	TFW-WD-02
External wall	E4 Jamb	Table K1 - Approved	0.050	30.20	1.51	TFW-WD-03
External wall	E5 Ground floor (normal)	Table K1 - Approved	0.160	44.71	7.15	TFW-GF-01
External wall	E10 Eaves (insulation at ceiling level)	Table K1 - Approved	0.060	36.07	2.16	TFW-RE-01
External wall	E12 Gable (insulation at ceiling level)	Table K1 - Approved	0.240	8.64	2.07	TFW-RE-01
External wall	E16 Corner (normal)	Table K1 - Default	0.180	14.40	2.59	
External wall	E17 Corner (inverted – internal area greater than external area)	Table K1 - Default	0.000	4.80	0.00	
External roof	R1 Head of roof window	Table K1 - Default	0.080	1.80	0.14	
External roof	R2 Sill of roof window	Table K1 - Default	0.060	1.80	0.11	
External roof	R3 Jamb of roof window	Table K1 - Default	0.080	5.92	0.47	

Total: 16.83 W/mK: Y-Value: 0.062 W/m<sup>2</sup>K:



### PREDICTED ENERGY ASSESSMENT



Unit 3, 24, Hampton Road, Twickenham, London Dwelling type: Bungalow, Detached

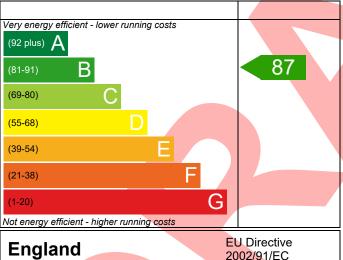
Date of assessment: 31/07/2022
Produced by: Christopher Bills

Total floor area: 82.11 m<sup>2</sup>

This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance Certificate will be created for the property. This will include more detailed information about the energy performance of the completed property.

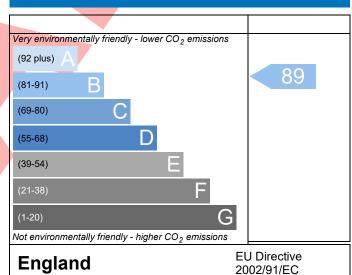
The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO<sub>2</sub>) emissions.

## Energy Efficiency Rating



The energy efficiency rating is a measure of the overall efficiency of a home. The higher the rating the more energy efficient the home is and the lower the fuel bills are likely to be.

## **Environmental Impact (CO<sub>2</sub>) Rating**



The environmental impact rating is a measure of a home's impact on the environment in terms of carbon dioxide (CO<sub>2</sub>) emissions. The higher the rating the less impact it has on the environment.

This report has not been submitted through the Elmhurst Energy members' portal, therefore results are subject to change when the dwelling is completed.

